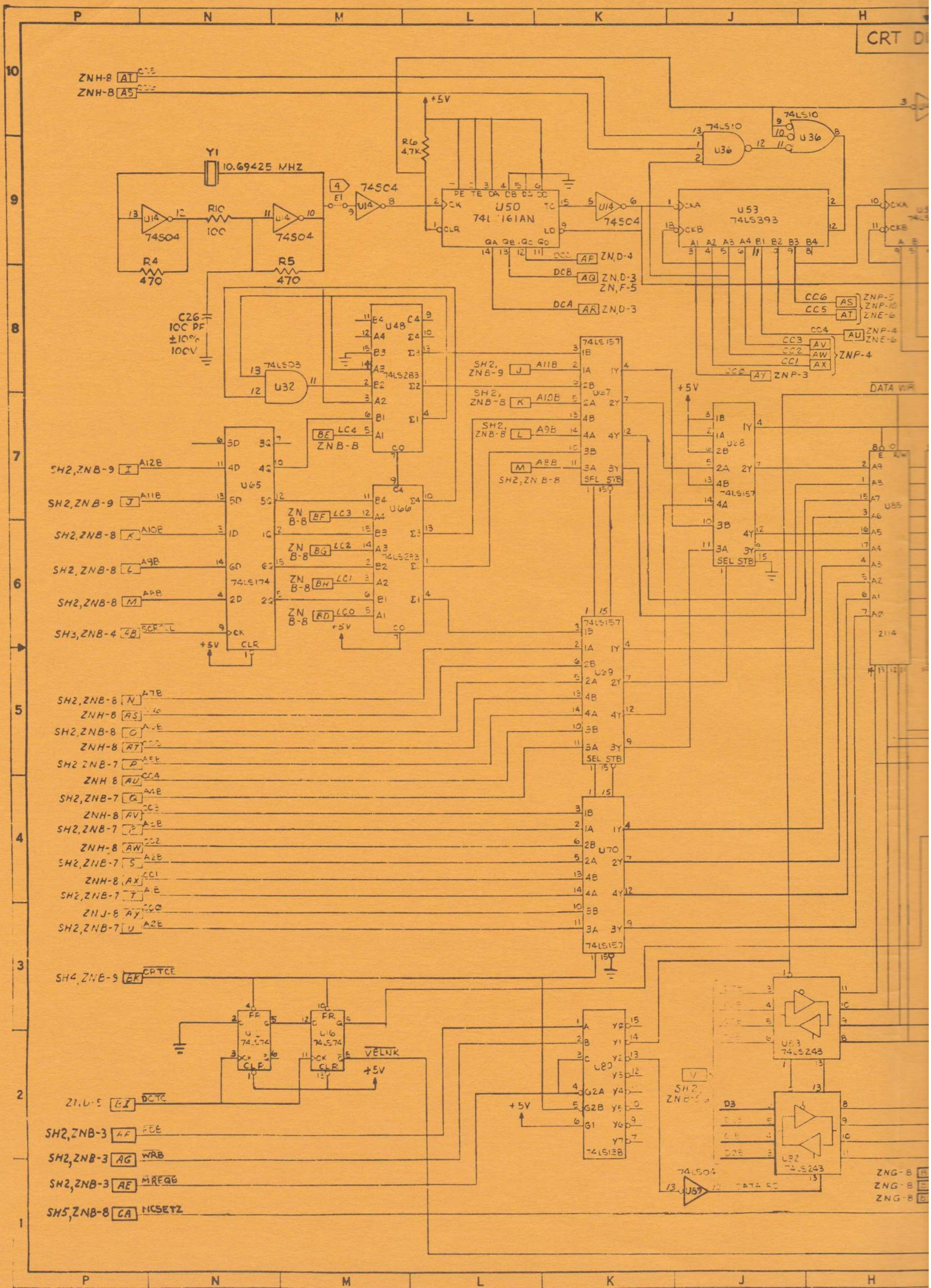
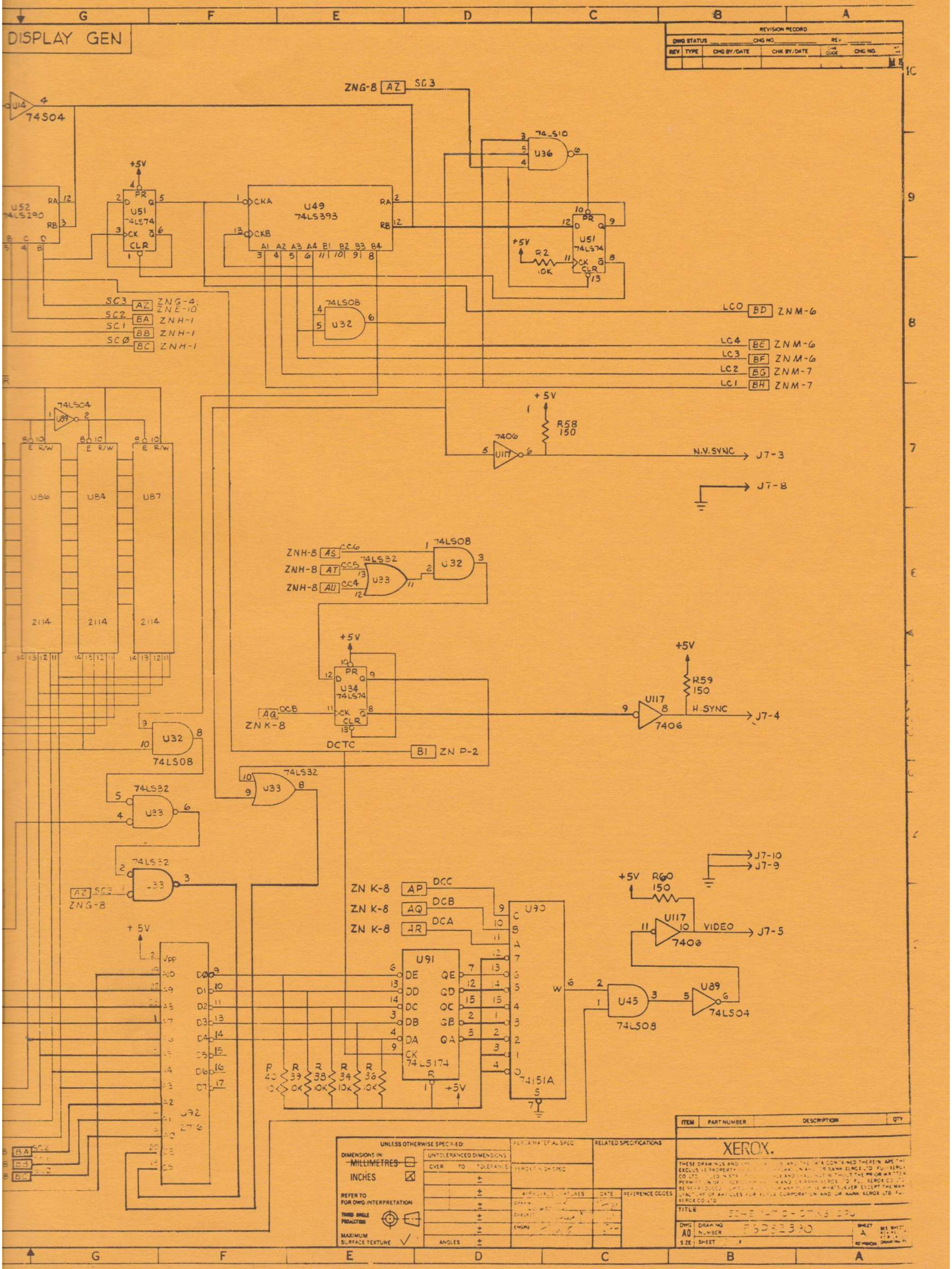
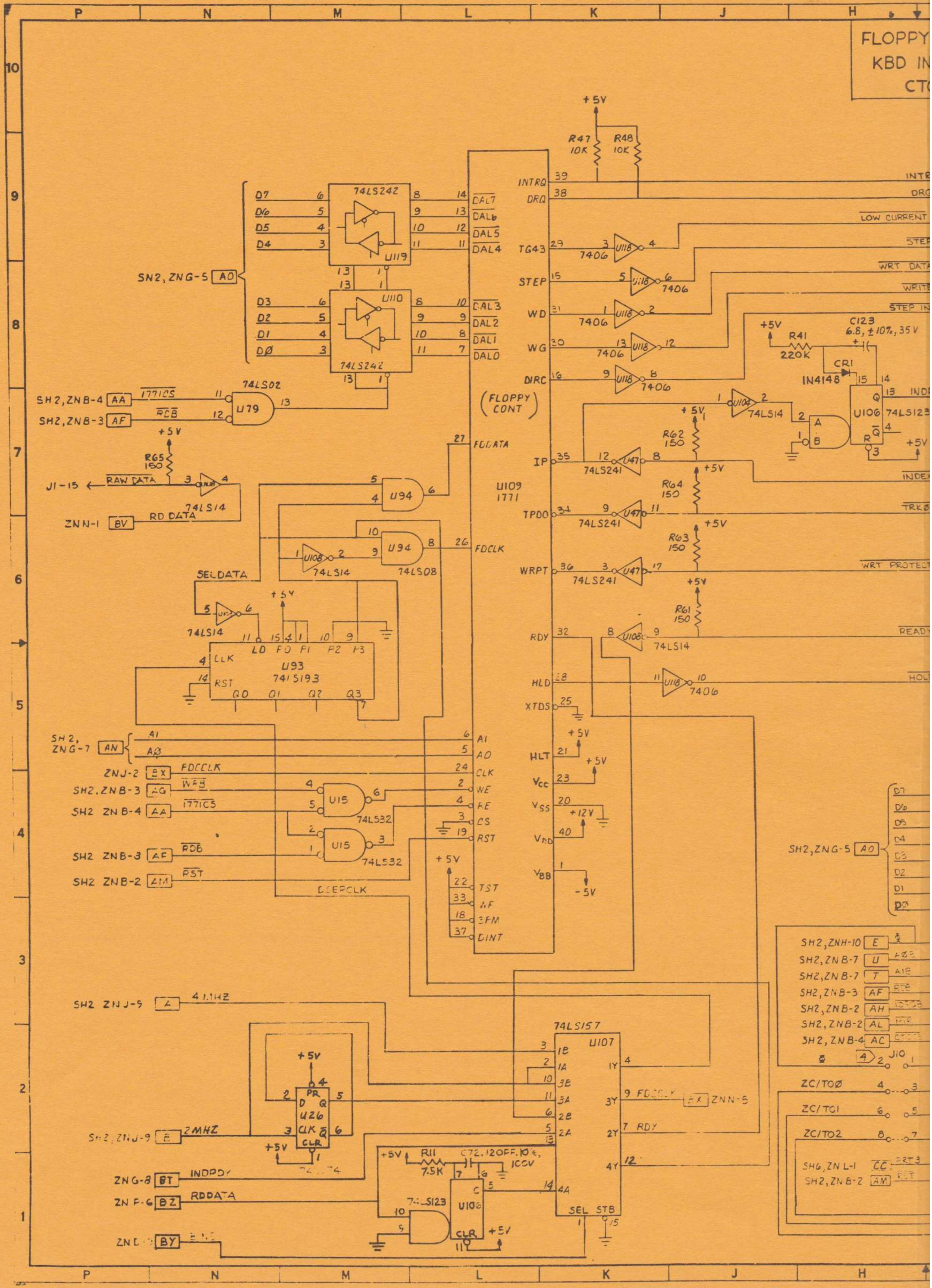
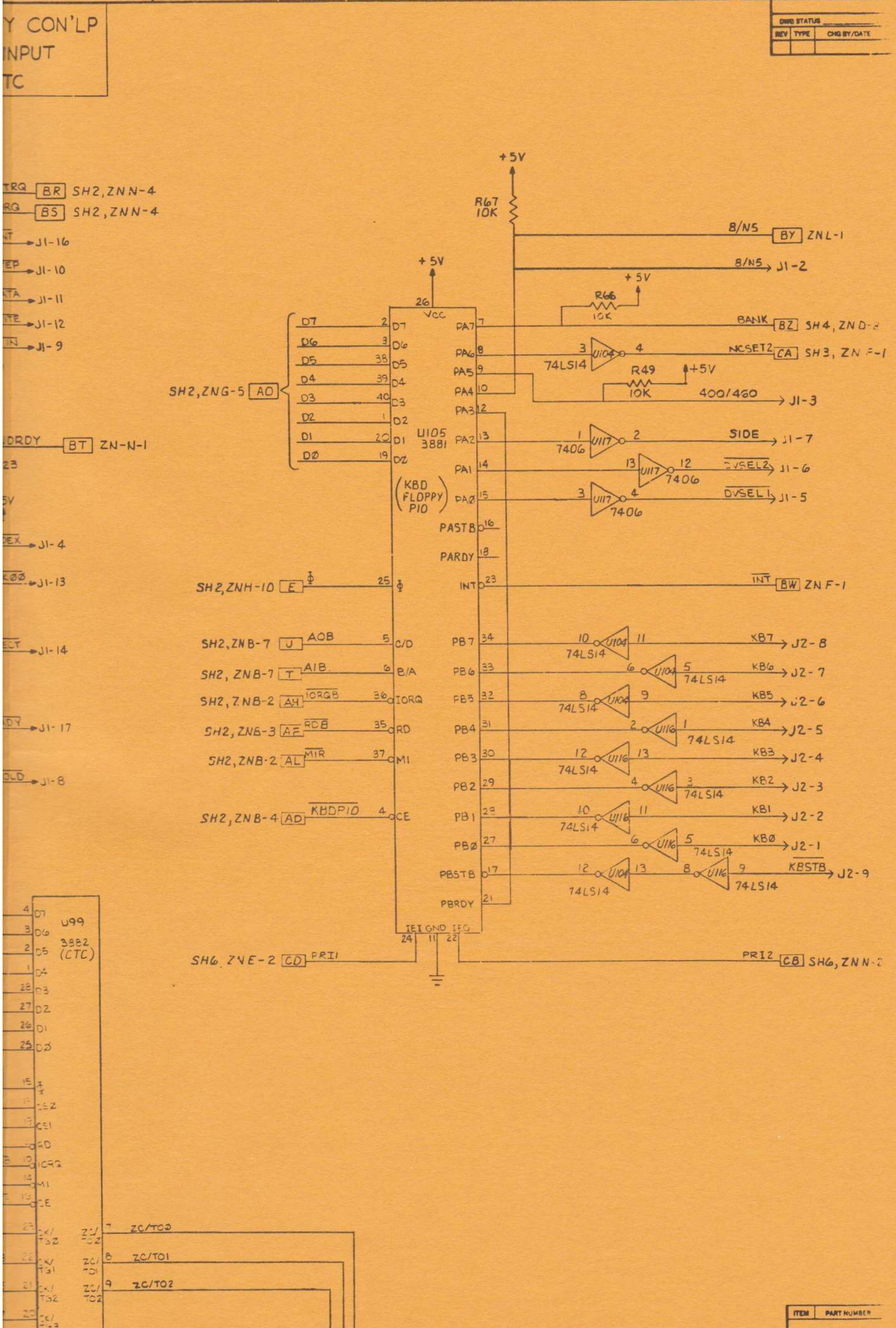

CRT DI
Y1 10.69425 MHZ
74S04
74LS10
U36
74LS161AN
U50
U53
74LS393
74LS283
U48
U66
74LS03
U32
74LS174
U65
74LS157
U67
U68
U69
U70
74LS243
U83
U82
74LS138
U80
74LS74
U16
74LS04
2114
U85
DATA WR
VELNK
CRTCE
DCTC
NCSETZ
MREQB
WRB
SCROLL
+5V
R6 4.7K
R10 100
R4 470
R5 470
C26 100 PF ±10% 100V



DISPLAY GEN
REVISION RECORD
XEROX.
U52 74LS290
U51 74LS74
U49 74LS393
U36 74LS10
U32 74LS08
U33 74LS32
U89 74LS04
U117 7406
U86
U84
U87
2114
U34 74LS74
U90 74151A
U91 74LS174
U45 74LS08
U92 2716
R58 150
R59 150
R60 150
R2 10K
N.V. SYNC
H. SYNC
VIDEO
J7-3
J7-8
J7-4
J7-5
J7-10
J7-9
LC0 BD ZNM-6
LC4 BE ZNM-6
LC3 BF ZNM-6
LC2 BG ZNM-7
LC1 BH ZNM-7
SC3 AZ ZNG-4; ZNE-10
SC2 BA ZNH-1
SC1 BB ZNH-1
SCØ BC ZNH-1
ZNG-8 AZ SC3
ZNH-8 AS CC6
ZNH-8 AT CC5
ZNH-8 AU CC4
AQ DCB ZNK-8
DCTC
B1 ZN P-2
ZN K-8 AP DCC
ZN K-8 AQ DCB
ZN K-8 AR DCA
+5V
UNLESS OTHERWISE SPECIFIED
DIMENSIONS IN:
MILLIMETRES
INCHES
REFER TO FOR DWG INTERPRETATION
THIRD ANGLE PROJECTION
MAXIMUM SURFACE TEXTURE
RELATED SPECIFICATIONS
ITEM
PART NUMBER
DESCRIPTION
QTY
TITLE



FLOPPY
KBD IN
CT
74LS242
U119
U110
74LS02
U79
(FLOPPY CONT)
U109
1771
INTRQ
DRQ
TG43
STEP
WD
WG
DIRC
IP
TPDO
WRPT
RDY
HLD
XTDS
HLT
Vcc
Vss
VDD
VBB
FDDATA
FDCLK
7406
74LS14
74LS241
74LS08
U94
U93
74LS193
SELDATA
RAW DATA
RD DATA
J1-15
DSEPCLK
74LS32
U15
74LS157
U107
U26
74LS123
U106
U108
IN4148
LOW CURRENT
WRT DATA
WRITE
STEP IN
INDEX
TRKØ
WRT PROTECT
READY
HOLD
ZC/TOØ
ZC/TO1
ZC/TO2
2MHZ
4 MHZ
INDRDY
RDDATA
+5V
-5V
+12V



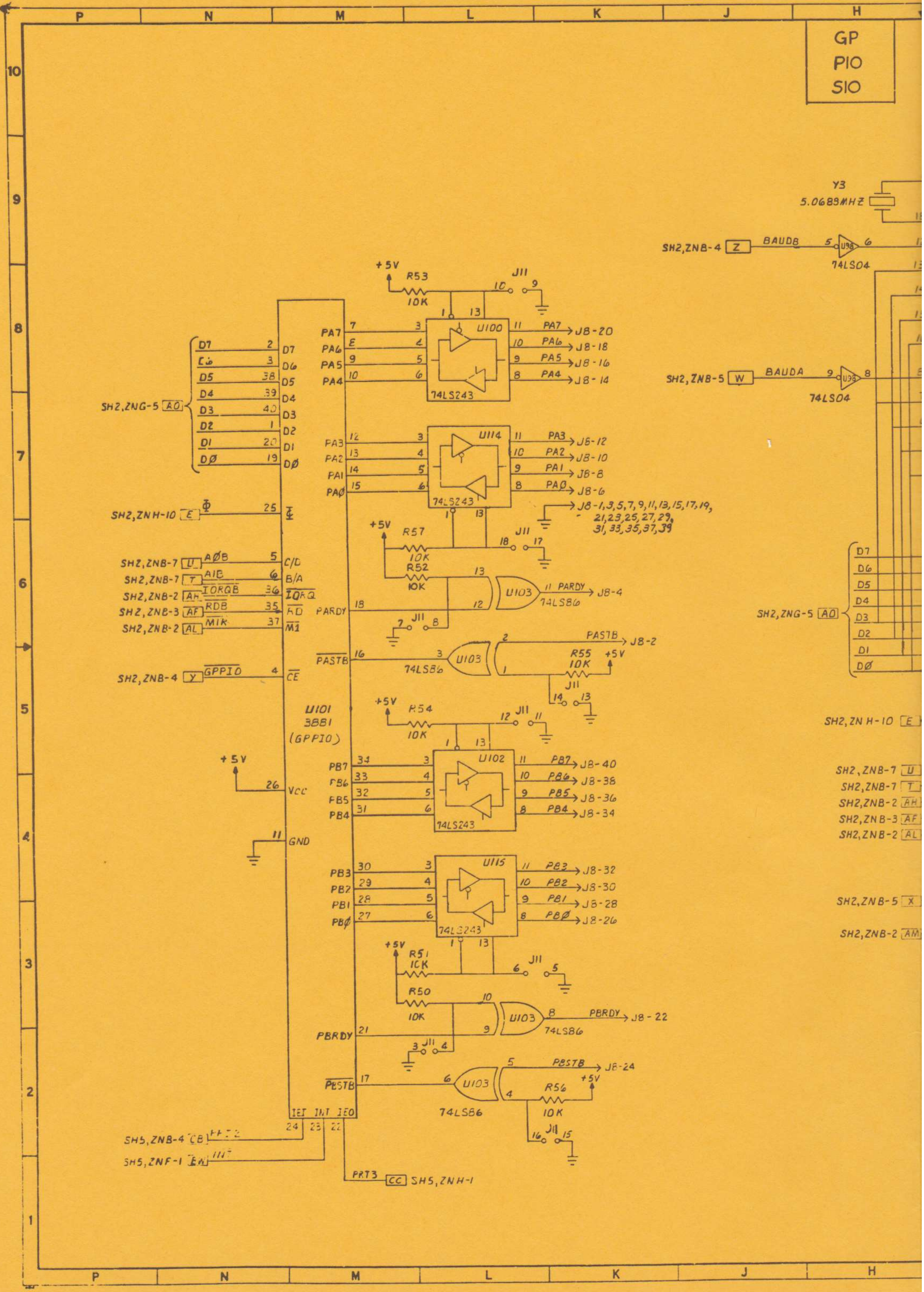
UNLESS OTHERWISE SPECIFIED	XEROX MATERIAL SPEC	RELATED SPECIFICATIONS
DIMENSIONS IN MILLIMETRES / INCHES	XEROX FINISH SPEC	REFERENCE CODES
REFER TO FOR DWG INTERPRETATION THIRD ANGLE PROJECTION	APPROVAL SIGNATURES	DATE
MAXIMUM SURFACE TEXTURE	ANGLES	

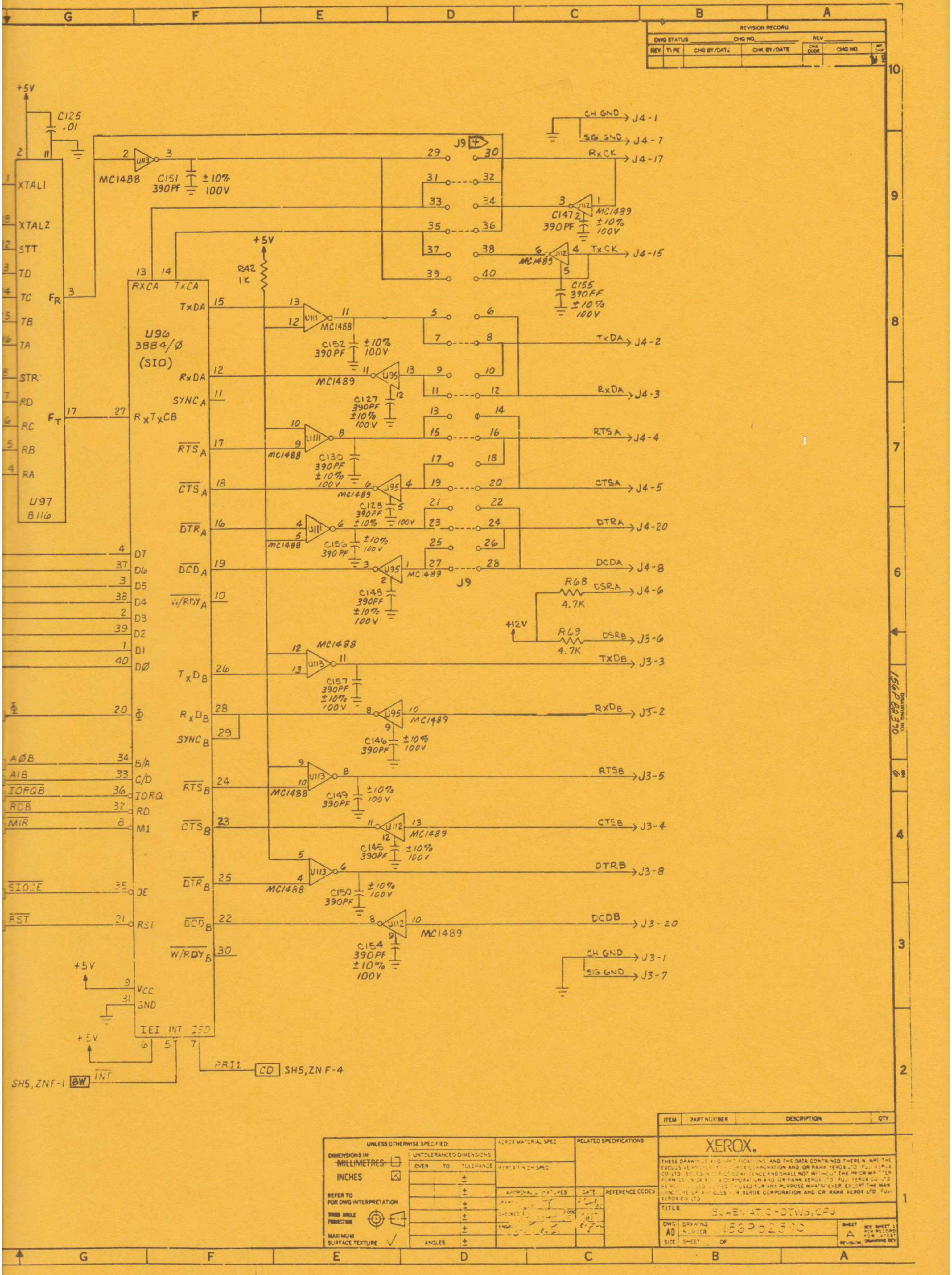
XER

THESE DRAWINGS AND THE DATA CONTAINED THEREIN ARE THE EXCLUSIVE PROPERTY OF ... XEROX CO LTD ... RANK XEROX LTD, FUJI XEROX ... XEROX CO LTD

TITLE

DWG SIZE A0 — DRAWING NUMBER — SHEET OF


GP
PIO
SIO
Y3
5.0688MHZ
SH2,ZNB-4 Z BAUDB 5 U98 6
74LS04
SH2,ZNB-5 W BAUDA 9 U98 8
74LS04
+5V R53 10K J11 10 9
U100 74LS243
PA7 → J8-20
PA6 → J8-18
PA5 → J8-16
PA4 → J8-14
SH2,ZNG-5 A0
D7 D6 D5 D4 D3 D2 D1 DØ
U114 74LS243
PA3 → J8-12
PA2 → J8-10
PA1 → J8-8
PAØ → J8-6
J8-1,3,5,7,9,11,13,15,17,19, 21,23,25,27,29, 31,33,35,37,39
SH2,ZNH-10 E Φ
+5V R57 10K J11 18 17
SH2,ZNB-7 U AØB C/D
SH2,ZNB-7 T A1B B/A
SH2,ZNB-2 AH IORQB IORQ
SH2,ZNB-3 AF RDB RD
SH2,ZNB-2 AL M1K M1
R52 10K
U103 74LS86 PARDY → J8-4
PARDY
J11 7 8
PASTB → J8-2
PASTB
U103 74LS86
R55 10K +5V
J11 14 13
SH2,ZNB-4 Y GPPIO CE
U101 3881 (GPPIO)
+5V R54 10K J11 12 11
+5V 26 Vcc
11 GND
U102 74LS243
PB7 → J8-40
PB6 → J8-38
PB5 → J8-36
PB4 → J8-34
U115 74LS243
PB3 → J8-32
PB2 → J8-30
PB1 → J8-28
PBØ → J8-26
+5V R51 10K J11 6 5
R50 10K
U103 74LS86 PBRDY → J8-22
PBRDY
J11 3 4
PBSTB → J8-24
PBSTB
U103 74LS86
R56 10K +5V
J11 16 15
IEI INT IEO
SH5,ZNB-4 CB
SH5,ZNF-1 BW INT
PRT3 CC SH5,ZNH-1
SH2,ZNG-5 A0
SH2,ZNH-10 E
SH2,ZNB-7 U
SH2,ZNB-7 T
SH2,ZNB-2 AH
SH2,ZNB-3 AF
SH2,ZNB-2 AL
SH2,ZNB-5 X
SH2,ZNB-2 AM


REVISION RECORD
DWG STATUS
CHG NO.
REV
TYPE
CHG BY/DATE
CHK BY/DATE
+5V
C125 .01
XTAL1
XTAL2
STT
TD
TC
TB
TA
STR
RD
RC
RB
RA
U97 8116
FR
FT
MC1488
C151 390PF ±10% 100V
U96 3884/Ø (SIO)
RXCA
TXCA
TxDA
RxDA
SYNCA
RxTxCB
RTSA
CTSA
DTRA
DCDA
W/RDYA
D7
D6
D5
D4
D3
D2
D1
DØ
TxDB
RxDB
SYNCB
RTSB
CTSB
DTRB
DCDB
W/RDYB
B/A
C/D
IORQ
RD
M1
CE
RST
VCC
GND
IEI
INT
IEO
AØB
A1B
IORQB
RDB
M1R
SIOCE
RST
R42 1K
J9
MC1489
C147 390PF ±10% 100V
C155 390PF ±10% 100V
C152 390PF ±10% 100V
C127 390PF ±10% 100V
C130 390PF ±10% 100V
C128 390PF ±10% 100V
C156 390PF ±10% 100V
C148 390PF ±10% 100V
C157 390PF ±10% 100V
C146 390PF ±10% 100V
C149 390PF ±10% 100V
C145 390PF ±10% 100V
C150 390PF ±10% 100V
C154 390PF ±10% 100V
R68 4.7K
R69 4.7K
+12V
CH GND J4-1
SIG GND J4-7
RxCK J4-17
TxCK J4-15
TxDA J4-2
RxDA J4-3
RTSA J4-4
CTSA J4-5
DTRA J4-20
DCDA J4-8
DSRA J4-6
DSRB J3-6
TXDB J3-3
RXDB J3-2
RTSB J3-5
CTSB J3-4
DTRB J3-8
DCDB J3-20
CH GND J3-1
SIG GND J3-7
PRI1
CD SH5, ZN F-4
SH5, ZNF-1 BW INT
ITEM
PART NUMBER
DESCRIPTION
QTY
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS IN:
MILLIMETRES
INCHES
UNTOLERANCED DIMENSIONS
OVER
TO
TOLERANCE
REFER TO FOR DWG INTERPRETATION
THIRD ANGLE PROJECTION
MAXIMUM SURFACE TEXTURE
ANGLES
XEROX MATERIAL SPEC
XEROX FINISH SPEC
RELATED SPECIFICATIONS
APPROVAL SIGNATURES
DATE
REFERENCE CODES
CHECKED
XEROX
THESE DRAWINGS AND SPECIFICATIONS, AND THE DATA CONTAINED THEREIN, ARE THE EXCLUSIVE PROPERTY OF XEROX CORPORATION AND OR RANK XEROX LTD. FUJI XEROX CO. LTD.
TITLE
SCHEMATIC-DTWS, CPU
DWG SIZE A0
DRAWING NUMBER 156P52390
SHEET
OF
REVISION
SEE SHEET 1 REV RECORD FOR LATEST DRAWING REV
156P52390
G
F
E
D
C
B
A
10
9
8
7
6
5
4
3
2
1

POW… DISTRIBU…

1 UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS, ±5%, .25W

CAPACITANCE VALUES ARE IN MICROFARADS +80 -20%, 50V

2 POWER DISTRIBUTION TABLE

REF DESIGNATIONS	GND	+5	+12	-12	-5
U1-8 17-24, 37-44 54-61	16	9	8		1
U9-12, 14-16, 25, 26, 28 29-34, 36, 45, 49, 51, 52 53, 74, 77, 78, 79 82, 83 89 94, 95, 98, 100, 102 103, 104, 108, 110, 112, 114 115-119	7	14			
U13	12	3			
U27, 48, 50 62 65-73, 75, 76, 80 88, 90 91, 93 106, 107	8	16			
U35, 47, 81	10	20			
U46	29	11			
U63, 64 92	12	24			
U84-87	9	18			
U96	31	9			
U97	11	2	9		
U99	5	24			
U101, 105	11	26			
U109	20	21	40		1
U111, 113	7		14	1	

3 REFERENCE DESIGNATIONS

LAST USED	NOT USED
C196	C27, 58, 71, 91, 92, 93, 192
E3	
J11	
R69	R37
S1	
U119	
Q1	
VR2	
CR1	

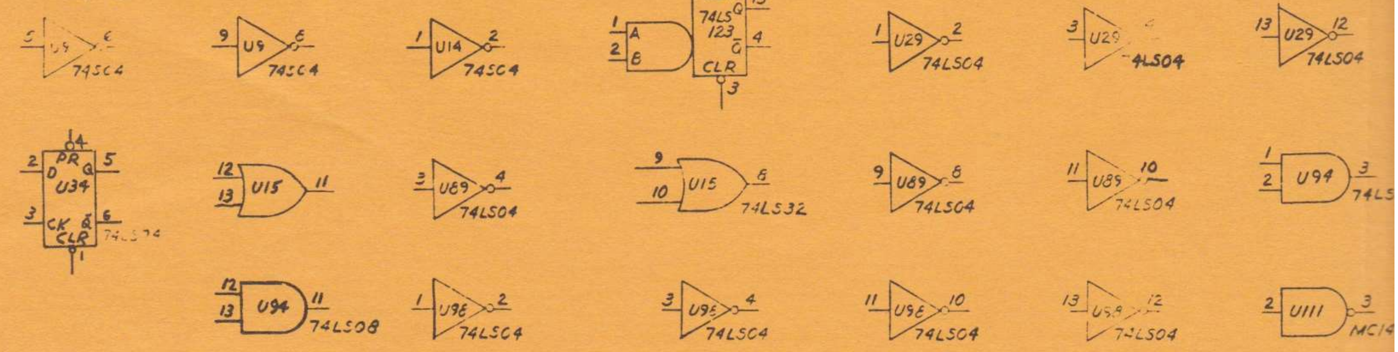
LAST USED	NOT USED
Y3	

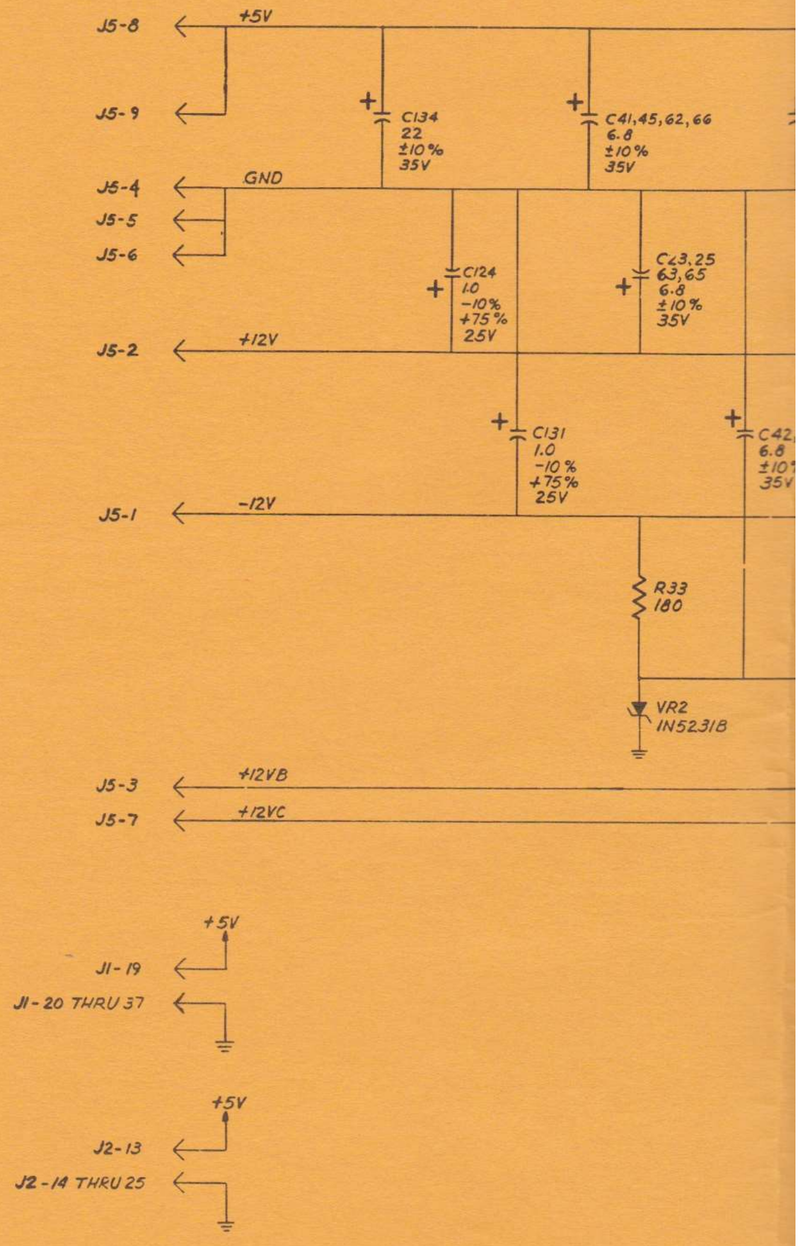
4 FOR NORMAL OPERATION SHUNTS TO BE INSTALLED IN THE FOLLOWING POSITIONS

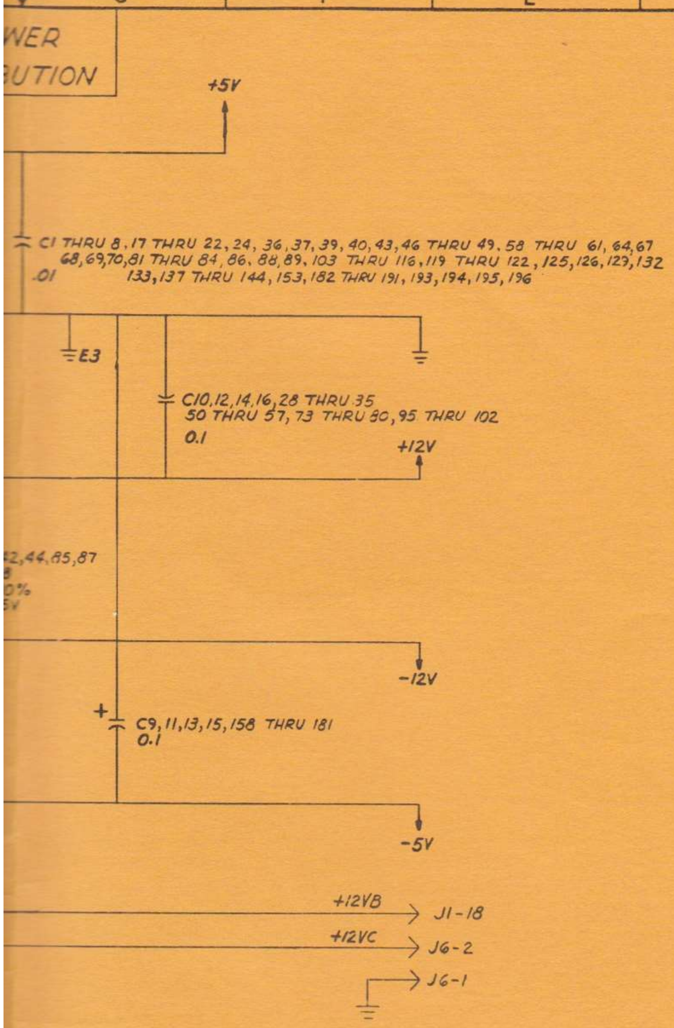
REF DESIG	BETWEEN PINS
E1	1, 2
E2	1, 2
J9	7 & 8, 11 & 12, 15 & 16 19 & 20, 23 & 24 27 & 28, 31 & 32 35 & 36
J10	3 & 4, 7 & 8

5 LAST INTERCONNECT LETTER USED "CD"

6 SPARE GATES:







L508

1488

6	5	4	3	2
A0	A0	A0	A0	A0

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS IN: MILLIMETRES / INCHES ☒
REFER TO 88P80008 FOR DWG INTERPRETATION
THIRD ANGLE PROJECTION
MAXIMUM SURFACE TEXTURE √

UNTOLERANCED DIMENSIONS		
OVER	TO	TOLERANCE
		±
		±
		±
		±
ANGLES		±

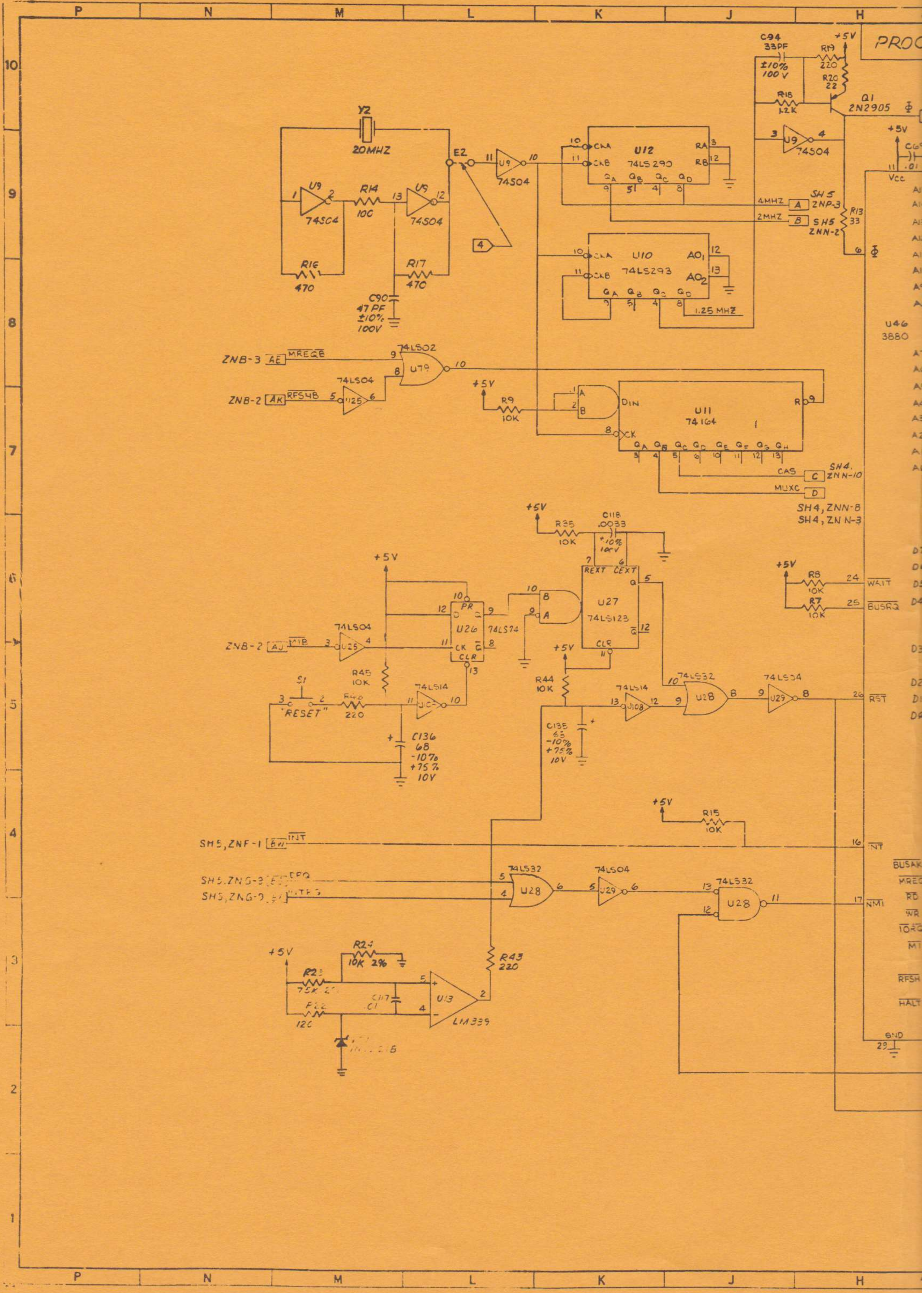
REVISION RECORD
DWG STATUS / CHG NO. / REV.

REV	TYPE	CHG BY/DATE	CHK BY/DATE	CHG CODE	CHG NO.
A	ISS				

ITEM	PART NUMBER	DESCRIPTION	QTY

XEROX.

TITLE
DWG SIZE A0
15GP82390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20MHZ
E2
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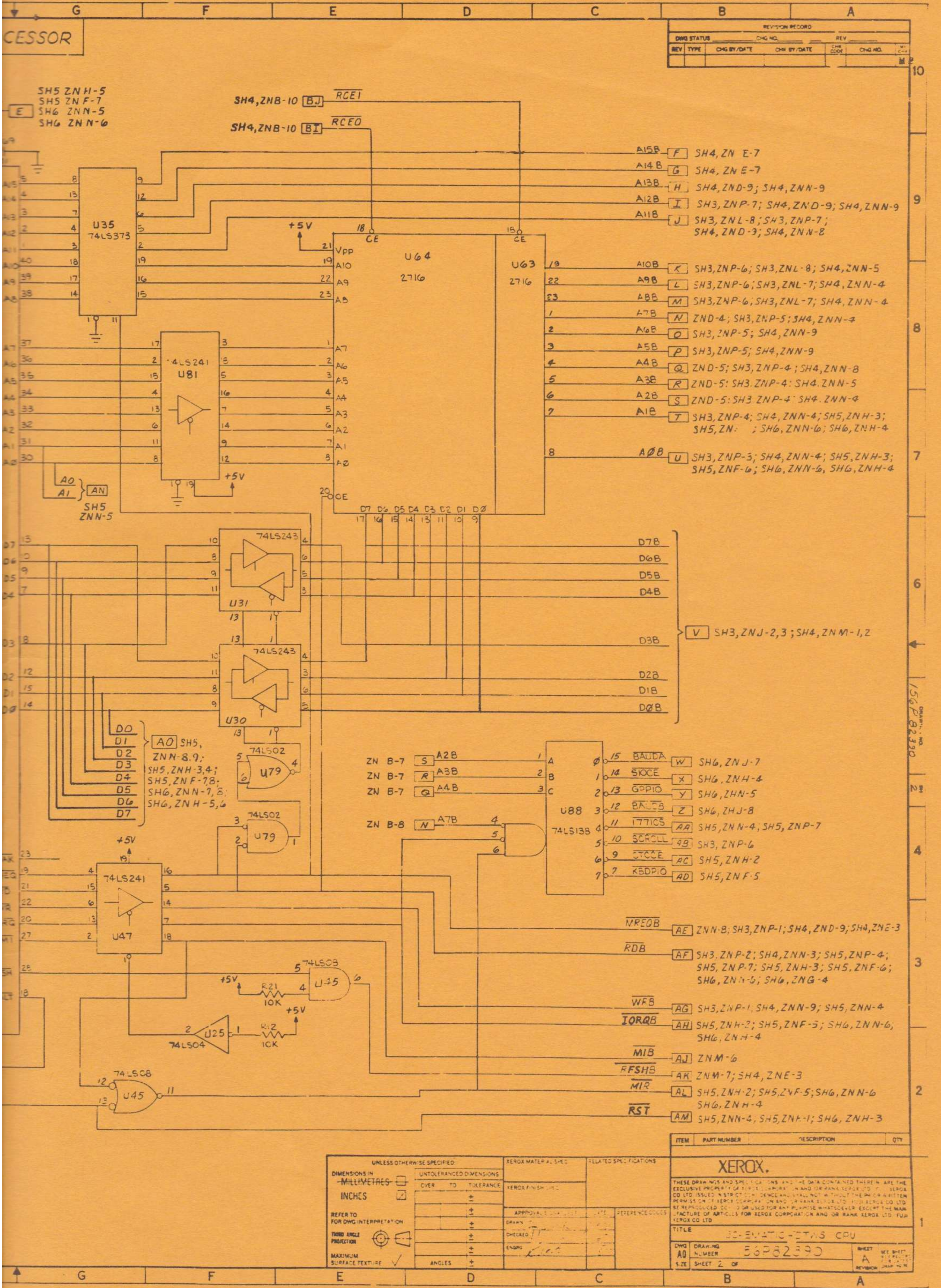
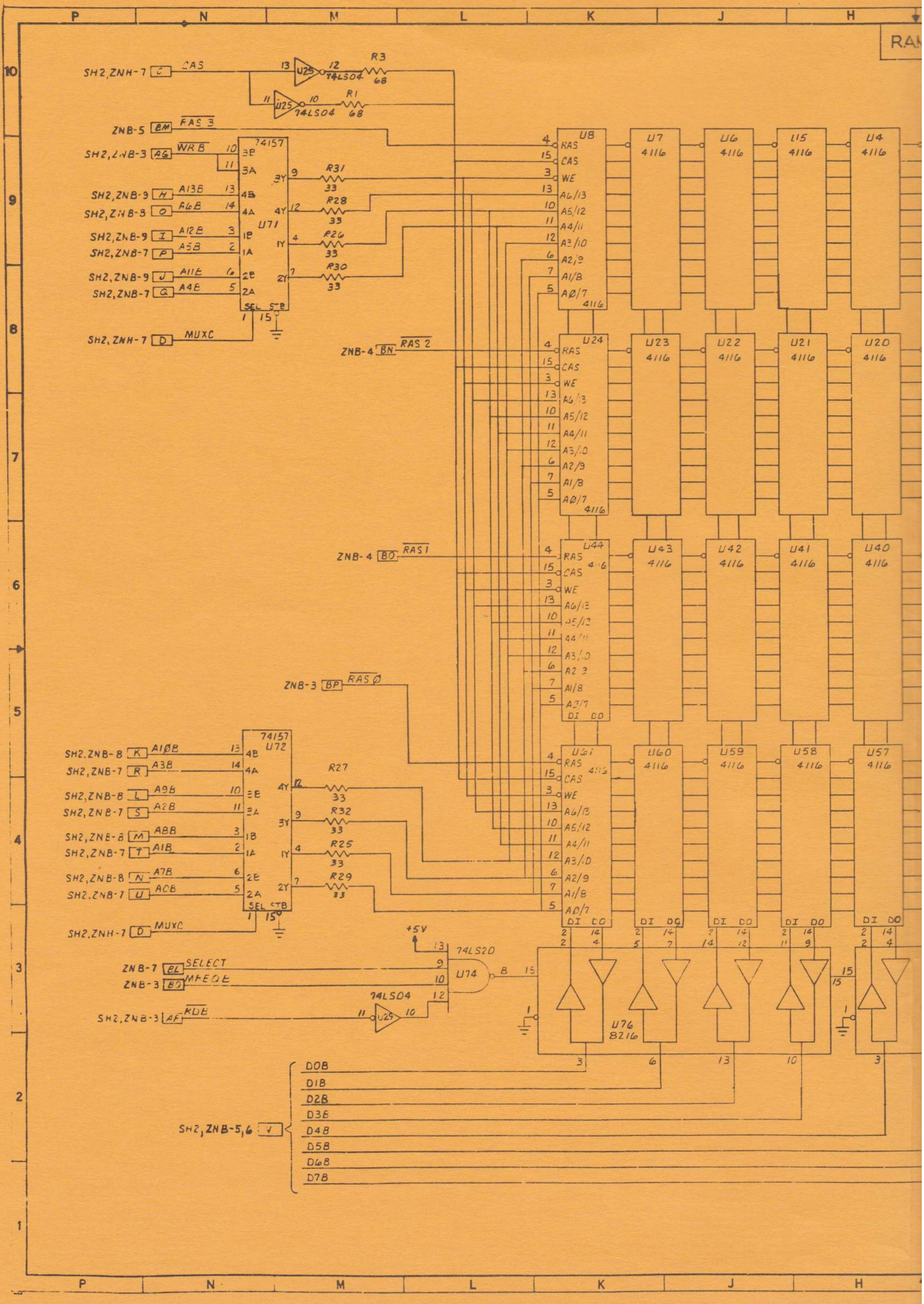
R14 100
R16 470
R17 470
C90 47PF ±10% 100V
U12 74LS290
U10 74LS293
1.25 MHZ
4MHZ
2MHZ
SH5 ZNP-3
SH5 ZNN-2
C94 33PF ±10% 100V
R19 220
R20 22
R18 1.2K
Q1 2N2905
R13 33
U46 3880
ZNB-3 AE MREQB
ZNB-2 AK RFSHB
74LS02 U79
74LS04 U25
+5V
R9 10K
U11 74164
CAS
MUXC
SH4, ZNN-10
SH4, ZNN-8
SH4, ZN N-3
R35 10K
C118 .0033
U27 74LS123
U26 74LS74
ZNB-2 AJ M1B
R45 10K
S1 "RESET"
R40 220
74LS14
C136 68 -10% +75% 10V
R44 10K
C135 68 -10% +75% 10V
74LS32 U28
74LS04 U29
R8 10K
R7 10K
WAIT
BUSRQ
RST
R15 10K
SH5, ZNF-1 INT
NMI
R43 220
R24 10K 2%
U13 LM339
BUSAK
RFSH
HALT
GND


CESSOR
SH5 ZNH-5
SH5 ZNF-7
E SH6 ZNN-5
SH6 ZNN-6
SH4, ZNB-10 BJ RCE1
SH4, ZNB-10 BI RCE0
U35 74LS373
U81 74LS241
U64 2716
U63 2716
+5V
Vpp
CE
OE
A15B F SH4, ZN E-7
A14B G SH4, ZN E-7
A13B H SH4, ZND-9; SH4, ZNN-9
A12B I SH3, ZNP-7; SH4, ZND-9; SH4, ZNN-9
A11B J SH3, ZNL-8; SH3, ZNP-7; SH4, ZND-3; SH4, ZNN-8
A10B K SH3, ZNP-6; SH3, ZNL-8; SH4, ZNN-5
A9B L SH3, ZNP-6; SH3, ZNL-7; SH4, ZNN-4
A8B M SH3, ZNP-6; SH3, ZNL-7; SH4, ZNN-4
A7B N ZND-4; SH3, ZNP-5; SH4, ZNN-4
A6B O SH3, ZNP-5; SH4, ZNN-9
A5B P SH3, ZNP-5; SH4, ZNN-9
A4B Q ZND-5; SH3, ZNP-4; SH4, ZNN-8
A3B R ZND-5; SH3, ZNP-4; SH4, ZNN-5
A2B S ZND-5; SH3, ZNP-4; SH4, ZNN-4
A1B T SH3, ZNP-4; SH4, ZNN-4; SH5, ZNH-3; SH5, ZN ; SH6, ZNN-6; SH6, ZNH-4
AØB U SH3, ZNP-3; SH4, ZNN-4; SH5, ZNH-3; SH5, ZNF-6; SH6, ZNN-6, SH6, ZNH-4
A0 A1 AN SH5 ZNN-5
74LS243 U31
74LS243 U30
D7B D6B D5B D4B D3B D2B D1B DØB
V SH3, ZNJ-2,3; SH4, ZNM-1,2
D0 D1 D2 D3 D4 D5 D6 D7
AO SH5, ZNN-8,9; SH5, ZNH-3,4; SH5, ZNF-7,8; SH6, ZNN-7,8; SH6, ZNH-5,6
74LS02 U79
ZN B-7 S A2B
ZN B-7 R A3B
ZN B-7 Q A4B
ZN B-8 N A7B
U88 74LS138
BAUDA W SH6, ZNJ-7
SIOCE X SH6, ZNH-4
GPPIO Y SH6, ZHN-5
BAUDB Z SH6, ZHJ-8
1771CS AA SH5, ZNN-4; SH5, ZNP-7
SCROLL AB SH3, ZNP-6
CTCCE AC SH5, ZNH-2
KBDPIO AD SH5, ZNF-5
74LS241 U47
NREQB AE ZNN-8; SH3, ZNP-1; SH4, ZND-9; SH4, ZNE-3
RDB AF SH3, ZNP-2; SH4, ZNN-3; SH5, ZNP-4; SH5, ZNP-7; SH5, ZNH-3; SH5, ZNF-6; SH6, ZNN-6; SH6, ZNG-4
74LS08 U45
R21 10K
WRB AG SH3, ZNP-1, SH4, ZNN-9; SH5, ZNN-4
IORQB AH SH5, ZNH-2; SH5, ZNF-5; SH6, ZNN-6, SH6, ZNH-4
U25 74LS04
R12 10K
M1B AJ ZNM-6
RFSHB AK ZNM-7; SH4, ZNE-3
M1R AL SH5, ZNH-2; SH5, ZNF-5; SH6, ZNN-6; SH6, ZNH-4
RST AM SH5, ZNN-4; SH5, ZNF-1; SH6, ZNH-3
REVISION RECORD
DWG STATUS
CHG NO.
REV
ITEM PART NUMBER DESCRIPTION QTY
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS IN MILLIMETRES INCHES
UNTOLERANCED DIMENSIONS
OVER TO TOLERANCE
REFER TO FOR DWG INTERPRETATION
THIRD ANGLE PROJECTION
MAXIMUM SURFACE TEXTURE
ANGLES
XEROX MATERIAL SPEC
XEROX FINISH SPEC
RELATED SPECIFICATIONS
REFERENCE DOCS
DRAWN
CHECKED
ENGRG
XEROX
TITLE SCHEMATIC-DTAS CPU
DWG SIZE A0
DRAWING NUMBER 56P82390
SHEET 2 OF
REVISION A
156P82390



P N M L K J H
RAM
SH2,ZNH-7 C CAS
U25 74LS04 R3 68
U25 74LS04 R1 68
ZNB-5 BM RAS 3
SH2,ZNB-3 AG WRB
74157 U71
SH2,ZNB-9 H A13B
SH2,ZNB-8 O A6B
SH2,ZNB-9 I A12B
SH2,ZNB-7 P A5B
SH2,ZNB-9 J A11B
SH2,ZNB-7 Q A4B
R31 33
R28 33
R26 33
R30 33
SH2,ZNH-7 D MUXC
U8 4116 RAS CAS WE A6/13 A5/12 A4/11 A3/10 A2/9 A1/8 AØ/7
U7 4116
U6 4116
U5 4116
U4 4116
ZNB-4 BN RAS 2
U24 4116
U23 4116
U22 4116
U21 4116
U20 4116
ZNB-4 BO RAS1
U44 4116
U43 4116
U42 4116
U41 4116
U40 4116
ZNB-3 BP RAS Ø
74157 U72
SH2,ZNB-8 K A1ØB
SH2,ZNB-7 R A3B
SH2,ZNB-8 L A9B
SH2,ZNB-7 S A2B
SH2,ZNB-8 M A8B
SH2,ZNB-7 T A1B
SH2,ZNB-8 N A7B
SH2,ZNB-7 U A0B
R27 33
R32 33
R25 33
R29 33
SH2,ZNH-7 D MUXC
U61 4116
U60 4116
U59 4116
U58 4116
U57 4116
DI DO
+5V
74LS20 U74
ZNB-7 BL SELECT
ZNB-3 BD MREQE
SH2,ZNB-3 AF RDE
74LS04 U25
U76 8216
D0B
D1B
D2B
D3B
SH2,ZNB-5,6 V
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D7B
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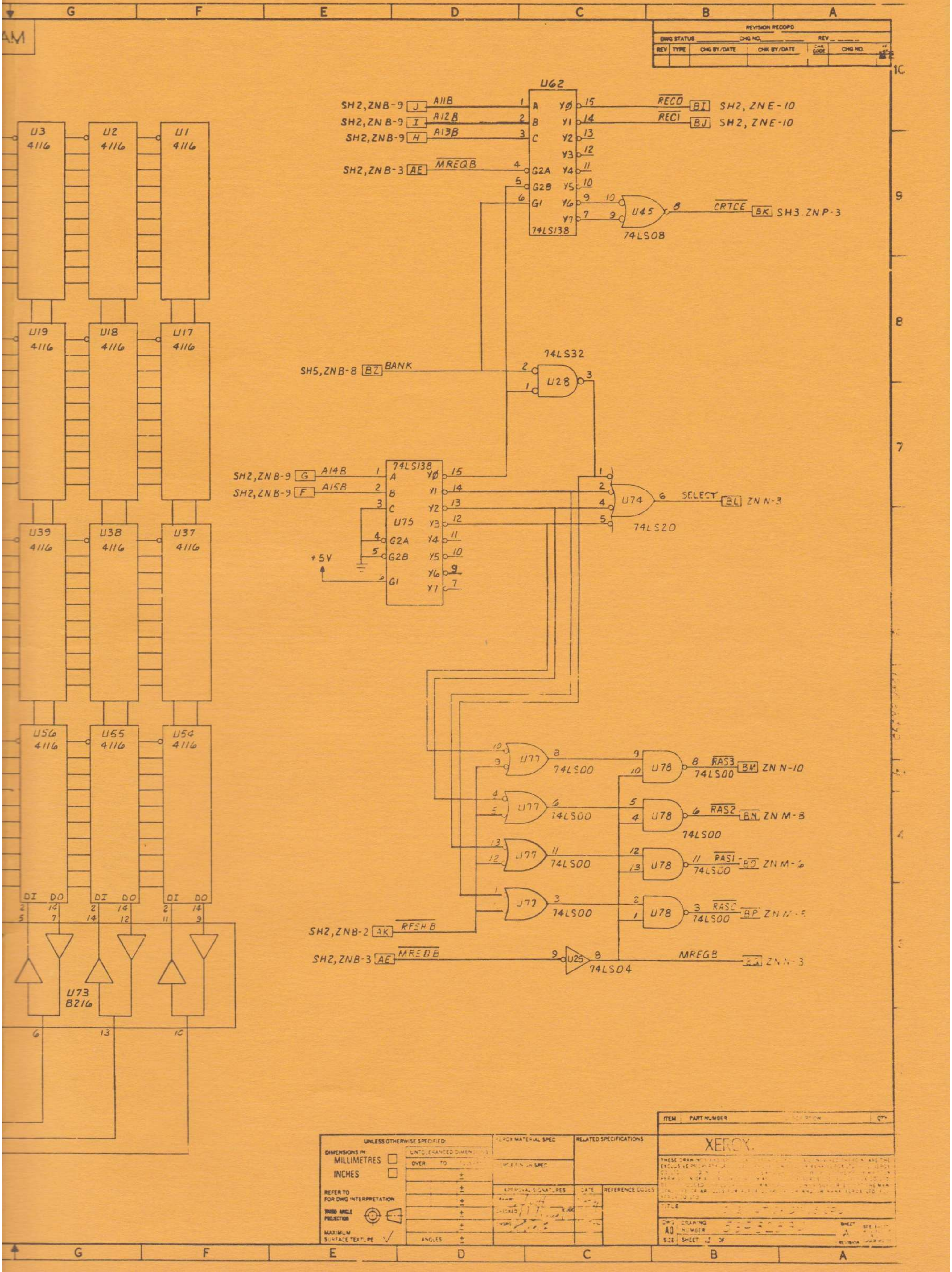
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REV
REV TYPE CHG BY/DATE CHK BY/DATE CHG CODE CHG NO.
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74LS138
SH2,ZNB-9 J A11B
SH2,ZNB-9 I A12B
SH2,ZNB-9 H A13B
SH2,ZNB-3 AE MREQB
RECO BI SH2, ZNE-10
REC1 BJ SH2, ZNE-10
U45
74LS08
CRTCE BK SH3.ZNP-3
U3 4116
U2 4116
U1 4116
U19 4116
U18 4116
U17 4116
U39 4116
U38 4116
U37 4116
U56 4116
U55 4116
U54 4116
74LS32
U28
SH5,ZNB-8 BZ BANK
74LS138
U75
SH2,ZNB-9 G A14B
SH2,ZNB-9 F A15B
+5V
U74
74LS20
SELECT BL ZN N-3
U77
74LS00
U78
RAS3 BM ZN N-10
RAS2 BN ZN M-8
RAS1 BO ZN M-6
RAS0 BP
SH2,ZNB-2 AK RFSHB
SH2,ZNB-3 AE MREQB
U25
74LS04
MREQB ZN N-3
U73
8216
DI DO
ITEM PART NUMBER
UNLESS OTHERWISE SPECIFIED
DIMENSIONS IN MILLIMETRES INCHES
REFER TO FOR DWG INTERPRETATION
THIRD ANGLE PROJECTION
MAXIMUM SURFACE TEXTURE
XEROX MATERIAL SPEC
RELATED SPECIFICATIONS
APPROVAL SIGNATURES
DATE
REFERENCE CODES
ANGLES
XEROX
TITLE
DWG SIZE A0
DRAWING NUMBER
SHEET